

## Contents Volume 154

### Volume 154, Nos. 1-2, 1 February 1998

Extrapolated fields in the formulation of the assumed strain elements Part II: Three-dimensional problems

*Y.-J. Chen and H.K. Stolarski* 1

Linear constraints in object-oriented finite element programming

*Y. Dubois-Pélérin and P. Pégot* 31

Object-oriented finite elements. III. Theory and application of automatic programming

*D. Eyheramendy and T. Zimmermann* 41

A multiple-quadrature eight-node hexahedral finite element for large deformation elastoplastic analysis

*W.K. Liu, Y. Guo, S. Tang and T. Belytschko* 69

The arbitrary local mesh replacement method: An alternative to remeshing for crack propagation analysis

*M.M. Rashid* 133

### Volume 154, Nos. 3-4, 2 March 1998

Co-rotational dynamic analysis of flexible beams

*K. Behdinan, M.C. Stylianou and B. Tabarrok* 151

Applications and prospect of the nonlinear decoupling method

*M. Cotsaftis, J. Robert, M. Rouff and C. Vibet* 163

Trajectories generation under constraints by linearization method

*M. Rouff and M. Verdier* 179

A scheme for tracing the equilibrium path in perturbation methods

*S. Lopez* 193

Physics based GMRES preconditioner for compressible and incompressible Navier-Stokes equations

*N. Nigro, M. Storti, S. Idelsohn and T. Tezduyar* 203

A two-step, two-field hybrid method for the static and dynamic analysis of substructure problems with conforming and non-conforming interfaces

*D. Rixen, C. Farhat and M. Géradin* 229

Finite difference methods for the reduced water wave equation <i>X. Yu</i>	265
A multiscale finite element method for the Helmholtz equation <i>A.A. Oberai and P.M. Pinsky</i>	281
Galerkin Generalized Least Squares finite element methods for time-harmonic structural acoustics <i>K. Grosh and P.M. Pinsky</i>	299
An asymptotically exact finite element error estimator based on $C^1$ stress recovery <i>S.B. Pomeranz, A.W. Kirk and W.D. Baker</i>	319
An element free Galerkin formulation for stable crack growth in an elastic solid <i>Y. Xu and S. Saigal</i>	331
Author Index of Volume 154	345
Subject Index of Volume 154	347
Instructions to authors	351
Contents Volume 154	353

